We claim:

1 1.   A method for retrieving and editing the data structure of a HTML UI Control comprising

2 the steps of: displaying, a HTML UI Control in a Web page within an application window at a

3 client device; transmitting, to a first server, an HTTP request; invoking, at said first server or a

4 second server, program code based on said HTTP request to query an information system; and

5 receiving, at said application window, an HTTP response containing the results of said query;

6 wherein the said transmitting and said receiving actions are accomplished without refreshing said

7 Web page displaying said HTML UI Control.

1 2.   A method as defined in claim 1, wherein said HTML U1 Control is a form.

1 3.   A method as defined in claim 1, wherein said HTML UI Control is a grid.

1 4.   A method as defined in claim 1, wherein said HTML UI Control is a listview.

1 5.   A method as defined in claim 1, wherein said HTML UI Control is a menu.

1 6.   A method as defined in claim 1, wherein said HTML U1 Control is a treeview.

1 7.   A method as defined in claim 1, wherein said HTML UI Control displays at least a

2 portion of a list of items.

1   8.   A method as defined in claim 1, wherein said Web page is contained in a HTML frame.

1   9.   A method as defined in claim 1, wherein said Web page contains a HTML inline frame.

1   10.   A method as defined in claim 1, wherein said application window is a Web browser

2   window.

1   11.   A method as defined in claim 1, wherein said Web page has means for storing the data

2   structure of said HTML UI Control in a JavaScript object.

1   12.   A method as defined in claim 11, wherein said JavaScript object is a multidimensional

2   array.

1   13.   A method as defined in claim 1, wherein said transmitting and said receiving actions are

2   accomplished without the use of Web browser plugins.

1   14.   A method as defined in claim 1, wherein the transmission of said HTTP request and

2   response is accomplished through a non-persistent HTTP connection.

1   15.   A method as defined in claim 1, wherein said information system is a database.

1   16.   A method as defined in claim 1, wherein said information system is a network domain.

1   17.   A method as defined in claim 1, wherein said information system is a file system.

1   18.   A method as defined in claim 1, wherein said results are evaluated by a JavaScript

2   function accessible by said Web page.

1   19.   A method as defined in claim 18, wherein the evaluation of said JavaScript function

2   results in a visual alteration of the displayed HTML UI Control. [claims 20-40 intentionally left

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1   41.   A method for retrieving and editing the data structure of a HTML UI Control comprising

2   the steps of: displaying, a HTML UI Control in a Web page within an application window at a

3   client device, said Web page having means for storing the data structure of said HTML UI

4   Control; transmitting, to a first server, an HTTP request containing at least one function name

5   and at least one parameter, wherein the program code of said function name(s) resides at a

6   server; invoking, at said first server or a second server, said program code to query an

7   information system based on the evaluation of said function name(s) and said parameter(s); and

8   receiving, at said application window, an HTTP response containing the results of the execution

9   of said query upon said information system; wherein the said transmitting and said receiving

10   actions are accomplished without refreshing said Web page displaying said HTML UI Control.

1   42.   A method as defined in claim 41, wherein said HTML UI Control is a form.

1   43.   A method as defined in claim 41, wherein said HTML UI Control is a grid.

1   44.   A method as defined in claim 41, wherein said HTML UI Control is a listview.

1   45.   A method as defined in claim 41, wherein said HTML UI Control is a menu.

1   46.   A method as defined in claim 41, wherein said HTML UI Control is a treeview.

1   47.   A method as defined in claim 41, wherein said HTML UI Control displays at least a

2   portion of a list of items.

1   48.   A method as defined in claim 41, wherein said Web page is contained in a HTML frame.

1   49.   A method as defined in claim 41, wherein said Web page contains a HTML inline frame.

1   50.   A method as defined in claim 41, wherein said application window is a Web browser

2   window.

1   51.   A method as defined in claim 41, wherein said data structure is stored in a JavaScript

2   object.

1   52.   A method as defined in claim 51, wherein said JavaScript object is a multidimensional

2   array.

1   53.   A method as defined in claim 41, wherein said transmitting and said receiving actions are

2   accomplished without the use of Web browser plugins.

1   54.   A method as defined in claim 41, wherein the transmission of said HTTP request and

2   response is accomplished through a non-persistent HTTP connection.

1   55.   A method as defined in claim 41, wherein said information system is a database.

1   56.   A method as defined in claim 41, wherein said information system is a network domain.

1   57.   A method as defined in claim 41, wherein said information system is a file system.

1   58.   A method as defined in claim 41, wherein said results are evaluated by a JavaScript

2   function accessible by said Web page.

1   59.   A method as defined in claim 58, wherein the evaluation of said JavaScript function

2   results in a visual alteration of the displayed HTML UI Control. [claims 60-80 intentionally left

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1   81.   A system for retrieving and editing the data structure of a HTML UI Control comprising:

2   means for storing the data structure associated with at least one HTML UI Control of at least one

3   Web page in a memory; and means for executing a query to a remote information system from

4   said Web page(s); and means for returning the results of said query to said Web page(s); and

5   means for processing said results at said Web page(s).

1   82.   The system of claim 81 wherein said means for storing the data structure associated with

2   at least one HTML UI Control of at least one Web page in a memory comprises: means for

3   appending data to said data structure stored in said memory.

1   83.   The system of claim 81 wherein said means for storing the data structure associated with

2   at least one HTML U1 Control of at least one Web page in a memory comprises: means for

3   searching said data structure stored in said memory; and means for replacing the data of said data

4   structure stored in said memory.

1   84.   The system of claim 81 wherein said means for executing a query to a remote

2   information system from said Web page(s) comprises: means for preparing the necessary

3   parameters of a remote procedure call (RPC) to a specified function at a server; and means for

4   packaging said RPC as a HTTP request; and means for executing said specified function at said

5   server.

1   85.   The system of claim 81 wherein said means for returning the results of said query to said

2   Web page(s) comprises: means for preparing said results as at least one parameter of a function

3   call; and means for packaging said results as a HTTP response; and means for returning said

4   HTTP response to said Web page(s).

1   86.   The system of claim 85 wherein means for preparing said results as at least one parameter

2   of a function call comprises: means for packaging said results as at least one delimited string.

1   87.   The system of claim 81 wherein means for processing said results at said Web page(s)

2   comprises: means for passing said results to at least one function of said Web page(s); and means

3   for executing said function(s) to process said results.

1   88.   The system of claim 87 wherein means for executing said function(s) to process said

2   results comprises: means for parsing at least one delimited string containing said results.